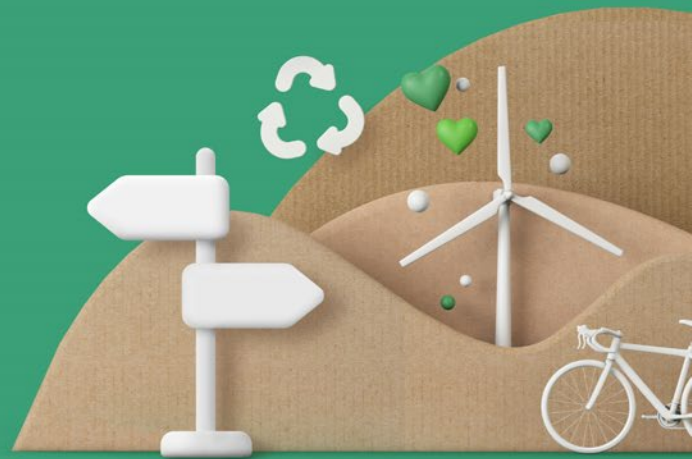


Roadmap to Net Zero 2050



Roadmap to Net Zero Emissions: Chambers Group Pathway to Achieving Net Zero by 2050

As the world grapples with the urgent need to combat climate change, industries across the board are re-evaluating their environmental impact and striving to achieve net-zero emissions by the target date of 2050. Among these sectors, the waste management industry plays a critical role in mitigating greenhouse gas emissions and transitioning towards a sustainable future.

At Chambers Group we are and continue to be committed to reducing our impact on the environment and currently divert over 98% of collected waste from landfill. We have a number of programmes and initiatives in place to help reduce our environmental impact and in turn that of our clients.

This report presents a comprehensive roadmap for Chambers Group, outlining strategies and milestones to achieve net-zero emissions by 2050. By implementing key initiatives such as the 'Collection Route Optimization' strategy, setting ambitious emission reduction targets and transitioning to non-fossil-fuel vehicles Chambers Group can become a leader in sustainability and contribute significantly to global climate goals.



Implementing the 'Collection Route Optimization' Strategy

To increase operational efficiency and reduce emissions, we will implement the 'Collection Route Optimization' strategy. This strategy, utilizing data analytics, advanced routing algorithms, and real-time monitoring aims to optimize waste collection routes to minimise the time spent on the road. By 2030, the company targets a 20% increase in efficiency, leading to reduced fuel consumption, minimized vehicle mileage, and lower greenhouse gas emissions associated with collection operations.



Setting Ambitious Emission Reduction Targets

We are committed to ambitious emission reduction targets. The company aims to cut emissions by 50% by 2030, aligning with global decarbonization efforts. These targets will serve as a benchmark for progress and accountability, driving the company's commitment towards achieving net-zero emissions by 2050.



Procuring 100% Renewable Electricity

As part of its sustainability strategy, we will transition to 100% renewable electricity procurement by 2050. The company will invest in on-site renewable energy generation, such as solar panels and enter into power purchase agreements with renewable energy providers. This transition will reduce reliance on fossil fuel-based grid electricity and contribute to a cleaner energy mix.



Transitioning to Non-Fossil-Fuel Vehicles

We recognize the importance of transitioning to non-fossil-fuel vehicles. By 2040, the company will replace its vehicle fleet with electric, hybrid, or hydrogen-powered vehicles. This transition will involve collaborating with vehicle manufacturers, investing in charging infrastructure, and incentivizing employees to adopt cleaner transportation options. The switch to non-fossil-fuel vehicles will significantly reduce emissions associated with waste collection and transportation operations.



Replacing All Site Fuels with Net Zero Emission Alternatives

To achieve net-zero emissions, Chambers Group will replace all site fuels with net-zero emission alternatives by 2040. The company will adopt alternative energy sources such as biogas or renewable natural gas to replace traditional fuels used in landfill gas capture, incineration, or other on-site processes. This transition will contribute to the overall carbon neutrality of Chambers Group's operations.



Our Current Operations – What are we doing today?

From our One Bin Service to our Zero to Landfill commitment we have been paving the way for a number of years helping our customers to be more sustainable and reduce the amount of waste sent to landfill. Today, we already have a number of initiatives and schemes in place that mean we are on track to reduce our CO2 emissions by 2050.



Our Unique ‘One Bin Service’

Our ‘One Bin’ Service allows customers to place everything in one bin without the hassle of sorting and recycling – it’s that simple. Allowing customers to place everything in one bin rather than sorting their waste into different waste streams simplifies the process and encourages maximum materials recovery. Other benefits include:

- Less collections resulting in reduced carbon footprint
- Reduces overall cost to the customer

Materials collected through our One Bin service are processed at our Materials Recovery Facility in Guildford where it is sorted and separated by our team. Non-recyclable waste is then used to generate Green Energy while recyclables are recovered and processed on for recycling. We do not send any materials to landfill – this is our Zero to Landfill commitment.

Typically, through our One Bin service 52% of all waste recovered is reused or recycled and 48% is used to produce a Refuse Derived Fuel (RDF) generating Green Electricity.



Multi-Compartmental Collection Vehicles

In addition to our One Bin Service, we also operate a fleet of multi-compartmental collection vehicles that allow us to collect more than one waste stream at a time. This helps us to reduce the number of vehicles on the road at any one time whilst optimising our collection route and maximising materials recovered from each site visited.



Large-Scale Skips

Chambers Group is one of the few companies operating within the Surrey and Hampshire area that offers 26 tonne skip trucks – the largest skips available domestically and commercially. This means we can collect 10-Yard skips containing heavy soil effortlessly. Through offering large-scale collections to homeowners and business alike we are able to cut our route operations by 33% - reducing our time on the roads and impact on the environment.



Electric Waste Collection Trucks

We have ambitious plans to electrify our fleet of vehicles by 2050. We recognise that electric waste collection has an essential role to play in helping the UK as a whole reach its 2050 net zero emissions targets.

The benefits of electric vehicles include:

- Help to reduce air pollution and cut greenhouse gases
- Much quieter! Helping to reduce noise pollution in urban environments

We are in the process of trialling several electric waste collection vehicles to ensure optimal efficiency in battery life to complete a full shift on one charge. This will ensure our operating routes are maximised without a break in service.



Current Partnerships



A Look into Our Current Partnerships and Current Commitments to achieving Net Zero.



Andusia

As part of our commitment to a Net Zero operation we work in partnership with Andusia, the largest independent exporter of RDF (Refused Derived Fuel) from UK producers (independent management-owned waste businesses).

Our long-standing relationship with Andusia means we export approximately 22,500 tonnes per annum of RDF to several Energy from Waste plants across Northern Europe. The waste is recovered and used to create energy and electricity, avoiding UK landfill.

Conclusion



We Are Committed to Leading the Way in Sustainability and Environmental Stewardship.

By implementing the 'Collection Route Optimization' strategy, setting ambitious emission reduction targets, procuring 100% renewable electricity, transitioning to non-fossil-fuel vehicles, and replacing all site fuels with net-zero emission alternatives, the company can achieve its goal of net-zero emissions by 2050.

This journey requires a collaborative effort, involving Chambers Group's management, employees, suppliers, and stakeholders.

By adopting these strategies (and the other environmental strategies we already implement), Chambers Group can demonstrate industry leadership while contributing to a greener and more sustainable future for everyone.

